

# **Managing Flight Operations Documentation**

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*Flight Technical Services  
(Flight Operations Engineering  
Flight Technical Publications)  
Boeing Commercial Airplanes Group*



# Flight Authoring System for Technical Documents

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## FASTDoc

- A new authoring system for Flight Technical Publications -
  - Common system for Seattle and Long Beach manuals: Ops Manuals/FCOM, QRH, FAM, FPPM, & FCTM
- Uses Standard PCs and NT server/network
- Currently in production for the 717, 737, 737NG, 747-400, 757, 767, 777, MD-10, MD-11, MD-90 (MD-80 soon)

# FASTDoc Benefits

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- Improved quality of delivered documents
- Printing reductions through page-based revisions
- Flexibility to adapt quickly
  - improved product and service
  - customizing data/documents to meet specific airline needs
- Web delivery



# How Your Manual is Created

## Airplane Configuration Database (APC)

- Tracks the configuration of all delivered airplanes:
- Several hundred items for each airplane



### Airplane 1

- P&W Engines
- Metric Units
- FAA Certification
- 235,000 KG MTOW
- Heading Up Displays
- 45,000 LB TO Thrust
- Logo light on stabilizer
- Powered pilot seats
- FMC Update 9.0
- EFIS Display Options
- Service Bulletins Installed:  
8385650-01  
87463954-03



### Airplane 2

- GE Engines
- JAA Certification
- Metric Units
- 235,000 KG MTOW
- Track Up Displays
- 50,000 LB TO Thrust
- Logo light on stabilizer
- Manual pilot seats
- FMC Update 6.5
- PFD/ND Display Options
- Service Bulletins Installed:  
8385650-01



### Airplane 3

- GE Engines
- JAA Certification
- 235,000 KG MTOW
- Track Up Displays
- 50,000 LB TO Thrust
- Logo light on stabilizer
- Powered pilot seats
- FMC Update 6.5
- PFD/ND Display Options
- Service Bulletins Installed:  
8385650-01

# Airplanes are Tied to Customers

- Customer Airplane Table
  - Tracks which airplanes are in a customer's document

Airplane Serial No.	Tab No.	Registration No.	KWK
1	PK 101	N78701	KWK
2	PK 102	N78702	KWK
3	PK 103	N78703	KWK
4	PK 104	N78704	KWK
5	PL 251	C78723	WCS
6	PL 252	C78724	WCS
7	PL 253	C76725	WCS
8	PK 572	C76726	WCS
9	PK 573		RAF
10	PK 574		RAF
11	PK 575		RAF

# Putting it all Together with Document Assembly

## The Super Doc

### Chapter 1

<All Airplanes>

#### General Description:

This is a great airplane for many many reasons. Your airline made a wise purchase when they chose a Boeing airplane

<Airplanes with P&W Engines>

#### Airplane Engines:

This airplane is equipped with Pratt and Whitney engines. These are reliable engines and should serve your airline well.

<Airplanes with GE Engines>

#### Airplane Engines:

This airplane is equipped with General Electric engines. These are reliable engines and should serve your airline well.

## Airplane Config DataBase



### Airplane 1

P&W Engines  
Metric Units  
235,000 KG MTOW  
Track Up Displays  
50,000 LB TO Thrust



### Airplane 2

GE Engines  
Metric Units  
235,000 KG MTOW  
Track Up Displays  
50,000 LB TO Thrust



### Airplane 3

GE Engines  
Metric Units  
235,000 KG MTOW  
Track Up Displays  
50,000 LB TO Thrust

## Customer Airplane Table

### Cvetovich Airlines

Airplane 2

## Custom

## Document Cvetovich Airlines

737 Operations Manual

### Chapter 1

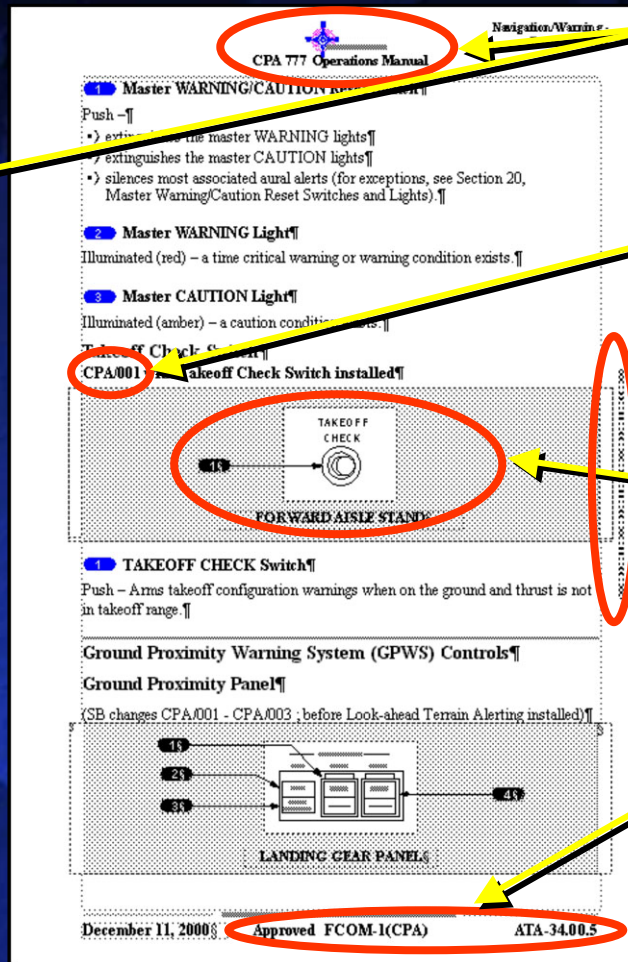
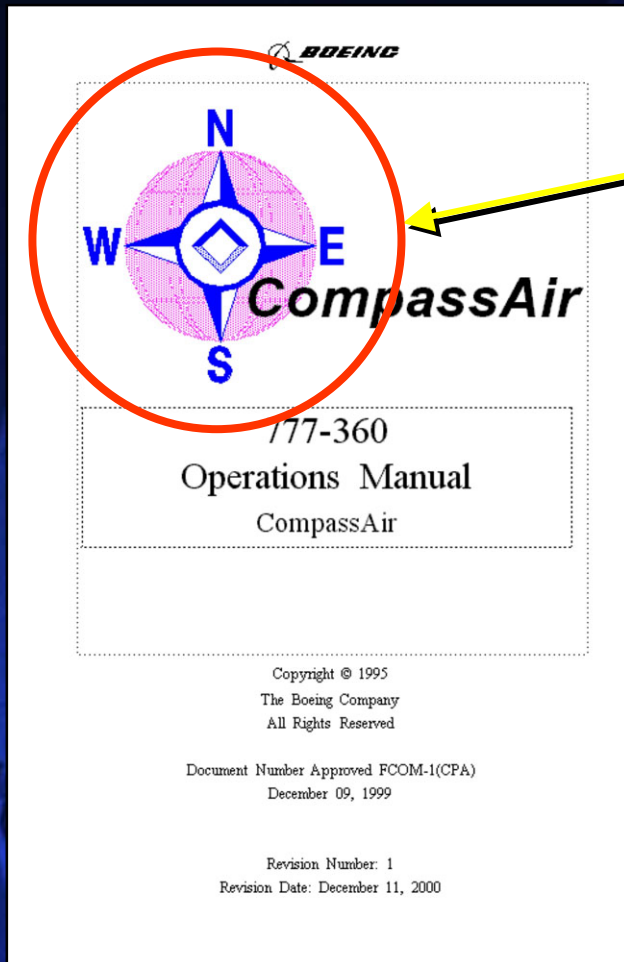
#### General Description:

This is a great airplane for many many reasons. Your airline made a wise purchase when they chose a Boeing airplane

#### Airplane Engines:

This airplane is equipped with General Electric engines. These are reliable engines and should serve your airline well.

# Ops Manual/FCOM Examples



Custom logo and headers

Custom airplane number

Customer originated content


Custom page footers, chapter/section/page

# Operations Manual/Flight Crew Ops Manual

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- Digital data (PDF, FrameMaker, XML, Web HTML)
- Plan 2 service allows an airline to
  - customize content while taking advantage of Boeing revision service
  - Incorporate airline material and engineering into the manual
  - add unique airline operating policies and procedures
  - add the airline logo to title page and page headers

# Flight Operations Website (www.MyBoeingFleet.com)

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**Certification and Operational Data**

Flight Operations provides essential certification and operational data. This includes the AFM, OM/FCOM, FPPM, PEM, DDG/MPM, performance software products, and more.

**Flight Operations Assistance**

Flight Operations is responsible to assist customer's flight operations staff with pre-delivery, delivery, and continuous in-service support to ensure a safe and efficient service. We provide training for airline dispatchers and performance engineers and provide expert assistance for beginning ETOPS operations.

**Safety**


Flight Operations continues support for safe and efficient operation once the airplane is in-service. We provide a number of operational safety Training Aids for airlines to incorporate into their own training programs. The Procedural Event Analysis Tool is the newest safety tool. It provides a method to more effectively learn from procedural non-compliance events to assure they will not happen again.

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## Operations Manual

This page contains sample Operations Manual files in Frame and PDF format. Your customized Operations Manual digital data can be made available through this web site. This digital data is intended to provide raw text and graphic data to help you create your own Operations Manual. It is not intended to be an integrated, hyperlinked, electronic version of the Boeing Operations Manual.

### Sample Data:

Model	Title	Document	Format	Rev	Date
737-700/-800	Vol. 1 & 2	D6-27370-TBC	<a href="#">PDF</a>   <a href="#">Frame</a>	2	July 31, 1998
737-700/-800	QRH	D6-27370-TBC	<a href="#">PDF</a>   <a href="#">Frame</a>	2	July 31, 1998

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(Long Beach) [GRPCASFlightOpsEngineering@West.Boeing.com](mailto:GRPCASFlightOpsEngineering@West.Boeing.com)

***See our product demonstrations after the meeting.***